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Approved For Release 2002/01/02 : CIA-RDP78B04747A002300080003-6

R & D CATALOG FORM

DATE

5 March 1965

1. PROJECT TITLE/CODE NAME Advanced [REDACTED] Microstereo- scope/Stereomicroscope		2. SHORT PROJECT DESCRIPTION The design, development and fabrication of an Advanced [REDACTED] Microstereoscope/Stereomicroscope		25X1A 25X1A
3. CONTRACTOR NAME [REDACTED]		4. LOCATION OF CONTRACTOR [REDACTED]		25X1A
5. C [REDACTED] Manufacturer		6. TYPE OF CONTRACT CPIF		
7. FUNDS FY 19 \$ FY 1965 \$ [REDACTED] FY 19 \$		8. REQUISITION NO. N/A		9. BUDGET PROJECT NO. NP-V-10 25X1A 25X1A
		10. EFFECTIVE CONTRACT DATE (Begin - end) Apr 1965 - January 1966		11. SECURITY CLASS. Confidential Unclassified Unclassified
12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION DDI/NPIC/P&DS [REDACTED]				25X1A
13. REQUIREMENT/AUTHORITY This device will be used by photointerpreters to stereoscopically view small-scale, high-resolution conjugate images during interpretation and analysis. This development is in response to requirements of NPIC/PID and NPIC/PAG.				
14. TYPE OF WORK TO BE DONE Engineering Development				
15. CATEGORIES OF EFFORT				
MAJOR CATEGORY		SUB-CATEGORIES		
Viewers and Other Interpretation Equipment				
16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC. This project will result in one prototype microstereoscope monthly progress reports and an instruction manual.				
17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION This project has been coordinated with NPIC/PID and NPIC/PAG personnel. By virtue of contacts throughout industry and the intelligence community, it is concluded that no such instrument exists or is currently under development.				
18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required) The extraction of intelligence from very high resolution photography requires the use of very high resolution stereoscopes. Some of our present instruments are fast becoming obsolete due to recent advances in acquisition systems and films. This project is directed toward developing a higher resolution more versatile replacement for our present Model II [REDACTED] Zoom 70 Microstereoscope. This will be a superior instrument that can be manufactured at a reasonable cost in production quantities. 25X1A				
19. APPROVED BY AND DATE				
OFFICE	DEPUTY DIRECTOR	DDCI		

FORM 2338
11-64

SECRET

GROUP 1
Excluded from automatic
downgrading and
declassification

(1-13)

Declass Review by NIMA / DoD

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(When Filled In)

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R & D CATALOG FORM (Continued)

18. Technical Specifications

This development will produce a superior instrument with the following features:

1. A 1 to 4 Zoom magnification ratio -- with both independent (either channel) and common (both channels) zoom options.
2. Optical image rotation through 360° in either channel.
3. Resolution of at least 5 lines per power at all magnifications [REDACTED]
4. 1X, 2X, and 4X interchangeable external objectives giving a total range of 10X through 160X magnification utilizing 10X eyepieces.
5. An adjustment in stereo separation of from 25mm to 200mm using a combination of optical slides and rotating rhomboids.
6. Can be used as a stereomicroscope (monoscopic) or microstereoscope (stereo) without removal of the rhomboids -- a feature unique to this instrument.
7. Compact enough to be mounted on current light tables for use in scanning operations.
8. Interpupillary distance between 54mm and 78mm.
9. A field of view of 2mm and a working distance of 50mm at 90X.

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This instrument will be produced under a [REDACTED] target cost CPIF contract which calls for delivery within 9 months of the contract date. This proposal does not include a microscope mount because this is extremely dependent upon the final external configuration of the microscope. A decision on the mounting will be made on the basis of the preferences of the operational components at the successful completion of the design portion of the contract.

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[REDACTED] is a new contractor; however, they appear very competent and offer an obvious advantage in the fact that they may provide us with a competitor for [REDACTED]. Proper security procedures are not currently in effect at the contractors plant; but the necessary contractor personnel have been cleared.

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